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**Physical Science Chemical Reactions & Equations (Chapter 12 Outline)**

*Vocabulary*: Define in your own words

Chemical reaction-

Chemical equation-

reactant-

product-

coefficient-

law of conservation of mass-

endothermic-

exothermic-

Activation energy-

Catalyst-

Enzyme-

Inhibitor-

**Briefly describe the following concepts:**

What are some signs that a chemical reaction may have occurred? Explain. (3 pts)

What happens to atoms during a chemical reaction? Explain. (2 pts)

Give an example of a chemical reaction that demonstrates the law of conservation of mass. Be specific in your explanation. (2 pts)

What are the different types of chemical reactions? Describe each chemical reaction in terms of products and reactions specifically! Also, give an example of a chemical reaction that demonstrates each reaction type. (10 pts).

Why do chemical reactions always involve a change in energy? Explain. (2 pts)

What factors affect the rate of a chemical reaction? Describe each factor in detail. (3 pts)

***ABOUT THE READING:***

Write three things that you learned about Chemical Reactions*:*

***Make sure to write a full sentence.***

*Example: I learned that the mass of the reactants will always be equal to the mass of the products in a chemical equation according to the law of conservation of mass.*

*1.*

*2.*

*3.*